## IN THE CLAIMS

Following are the claims as currently pending for consideration:

- 1. (Original) An apparatus comprising:
  - a processor core; and
  - a shared storage coupled to the processor core including a storage portion for a status corresponding to a data portion stored in the shared storage, the status including an indication of clean or dirty status, the data stored in the shared storage in an exclusive state.
- 2. (Original) The apparatus of Claim 1, the shared storage further including: a presence portion corresponding to the data portion to hold a first presence encoding of the corresponding data portion when said data is stored in an exclusive state for said processor core.
- 3. (Original) The apparatus of Claim 1, further comprising
  - a shared storage control coupled to the shared storage to receive a first data request and to transmit the data portion in response to the first data request if the status includes an indication of a clean status and to transmit a second data request if the status includes an indication of a dirty status.
- 4. (Original) The apparatus of Claim 3 further comprising:a second storage to receive the data portion from the shared storage; and

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a third storage to transmit a second data portion in response to the second data request from the shared storage.

- 5. (Original) The apparatus of Claim 4 wherein the second storage and the third storage are private cache storage.
- 6. (Original) The apparatus of Claim 5 wherein the shared storage, the second storage and the third storage are on the same die.
- 7. (Original) The apparatus of Claim 5 wherein the second storage and the third storage are distributed storage.
- 8. (Original) A method comprising:

storing in a shared storage, status information indicative of whether a data portion is stored in an exclusive state including an indication of whether the data is either in a clean state or a dirty state while in the exclusive state.

9. (Original) The method of Claim 8 further comprising:

transmitting the data portion in response to a first data request if the corresponding data portion status is an indication of the clean state; and

transmitting a second data request if the corresponding data portion status is an indication of the exclusive dirty state.

transmitting an invalidation request according to a presence encoding of the corresponding data portion if the first data request is of a first request type and if the data portion status is indicative of a valid state; and

setting the data portion status to indicate the dirty state if the first data request is of the first request type.

- 11. (Original) The method of Claim 10 further comprising:
  - setting the presence encoding to indicate an originator of the first data request if the first data request is of the first request type.
- 12. (Original) The method of Claim 10 wherein the first request type is a request to modify the requested data and the presence encoding is set to indicate only one originator.
- 13. (Original) A state machine executable encoding of the method of Claim 10 comprising one or more code storage medium having executable encodings stored thereon which, when executed by one or more state machines, causes the one or more state machines to perform the method of Claim 10.
- 14. (Original) A system comprising:
  - a first processor;
  - a second processor; and

a shared storage coupled to the first and second processors including a storage portion for a status corresponding to a data portion stored in the shared storage, the status including an indication of clean or dirty status when the data stored in the shared storage is in an exclusive state.

## 15. (Original) The system of Claim 14, further comprising

a shared storage control coupled to the shared storage to receive a first data request and to transmit the data portion in response to the first data request if the status includes an indication of a clean status and to transmit a second data request if the status includes an indication of a dirty status.

- 16. (Original) The system of Claim 15, the shared storage further including:

  a presence portion corresponding to the data portion to hold a first presence
  encoding of the corresponding data portion when said data is stored in an exclusive
- 17. (Original) The apparatus of Claim 15 further comprising:

state for said first or said second processor.

- a first processor storage to receive the data portion from the shared storage; and a second processor storage to transmit a second data portion in response to the second data request from the shared storage.
- 18. (Original) The apparatus of Claim 17 wherein the first processor storage and the second processor storage are private cache storage.

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- 20. (Original) The system of Claim 17 wherein the shared storage is distributed storage.
- 21. (New) An apparatus comprising:

a first storage unit including a data portion to store a data portion encoding and a status portion to store a status encoding corresponding to the data portion; and a first storage control coupled to the first storage unit to receive a first data request and in response to the first data request to:

transmit the data portion encoding reply without transmitting a corresponding data request if the corresponding data portion status is one of a set of exclusive clean status encodings,

transmit a second data request if the corresponding data portion status is one of a set of exclusive dirty status encodings,

transmit an invalidation request if the first data request is of a first request type and if the data portion status is one of a set of valid status encodings, and set the data portion status to one of the set of exclusive dirty status encodings if the first data request is of the first request type.

22. (New) The apparatus of Claim 21, the first storage unit further including: a presence portion corresponding to the data portion and the status portion to hold a presence encoding of the corresponding data portion, wherein the invalidation request is transmitted according to the presence encoding.

23. (New) The apparatus of Claim 22, where the first storage control in response to the first data request is to:

set the presence encoding to indicate an originator of the first data request if the first data request is of the first request type.

- 24. (New) The apparatus of Claim 22, wherein the first request type is a request to modify the requested data and the presence encoding is set to indicate only one originator.
- 25. (New) The apparatus of Claim 21 further comprising:

a second storage unit to receive the data portion encoding if the corresponding data portion status in the first storage unit was one of the set of exclusive clean status encodings; and

a second storage control to transmit a second data portion encoding in response to the second data request if the corresponding data portion status in the first storage unit was one of a set of exclusive dirty status encodings.

- 26. (New) The apparatus of Claim 25 wherein the first storage unit is shared storage.
- 27. (New) The apparatus of Claim 25 wherein the second storage unit is private storage.

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- 28. (New) The apparatus of Claim 27 wherein the first storage unit and the second storage unit are on the same die.
- 29. (New) The apparatus of Claim 28 further comprising:
  - a first processor coupled with the second storage unit to initiate the first data request; and
  - a third storage unit coupled with the second storage control to provide the second data portion encoding in response to the second data request if the corresponding data portion status in the first storage unit was one of a set of exclusive dirty status encodings.
- 30. (New) The apparatus of Claim 27 wherein the second storage unit is distributed storage.